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"Knowledge and timber shouldn't be much used until they are well seasoned."—Holmes.

Two Unfilled Offices

In our editorial last week we spoke of two important offices of the Armour Tech Athletic Association that lacked incumbents. In order to make ourselves clear in the eyes of those directly concerned in this affair we quote from the constitution of the organization:

"By Laws-Article IV-Cheers and Cheer Leaders

The officers of the organization shall choose the cheer leaders and assistant cheer leaders in any manner they may deem advisable; and from the same source, "Article VII-Social Affairs.

Section 1

The President of this organization shall appoint a Social Chairman."

The importance of these two By-Laws is unquestionable. They are, in reality, two of the reasons for which the A. T. A. A. now exists. With the Armour Tech Re-lays coming within a month and a half the necessity of a group of cheer leaders is apparent. With our school playing host to thousands of visitors the lack of organized cheering will be extremely noticeable.

There is a great deal of comment about the lack of school spirit at Armour. Yet what is done to arouse the necessary interest? Organized cheers with their color and life can do much to revive the Armour spirit of days gone by.

The Armour man of today sports just as much red blood as did his predecessors. He has a better skeleton organization than has been provided at any previous time. But this organization must fill its offices in order to carry on in the manner in which it was designed to function. Strong action and virile leaders are essential to the success of our school spirit.

In addition to cheer leaders we need a Social Chairman for the entire school as specified in the constitution of the A. T. A. A. The duty of this officer is to arrange and sanction all dates for athletic contests, meetings, and dances so as to avoid conflict. Because the two dances already given this year have been allowed to take place later than was formerly the case, the freshman and sophomores will have to combine their dance in order not to interfere with the junior prom. A social chairman will avoid these errors.

In these two editorials we have not displayed all the functions and faults of our student governing body. But we have demonstrated the most evident omissions. We hope that the man chosen to fill the place of the Vice-President of the Association (in place of A. W. Oberbeck who has left school) will be chosen on the basis of merit as disclosed by his previous work for Armour. If sufficient requests are received by the managing board of the *Armour Tech News*, we will be glad to serve you by printing the constitution of the A. T. A. A. in its entirety.

O. T. B.

"The Slipstick"

Cleave to "The Slipstick"; let
the Slapstick fly where it may.

Alcohol Good for 68

When your engine's cold,
And the battery's dead,
And the starter's gone blooie,
And you're outa your head ---

P'raps it's below zero
And the wind's blowin' strong,
But the heater won't work,
You'll not stand it for long ---

And the snow's piled up high,
Deep your car in a drift,
Not a tow man around
Not even a lift ---

There's but one thing to do
(Not cuss, blankety blank),
Just simply be nonchalant,
And get out and crank.

P'raps we're kinda late with poetry (?) of this sort
this season, but if we are, then apply it to next year's
account.

FUGUE IN SEVEN SHARPS

Blinks: "I hear that you and your neighbor are on the
outs. What happened?"

Blunks: "Well, my kids are taking music lessons and
the other day he sent over an axe with a note saying 'Try
this on your piano.'"

"Boxing came through with another victory by de-
feating the boys from Valparaiso, three bouts to two."
Well, now that we have this guy "Boxing" on the team,
we can do away with the rest of the boys. He seems to
be able to handle the job all by himself.

At the close of the doctor's weekly examination, the
nervous patient, wishing to offer a suggestion asked,
"Doctor, don't you think it would be a good idea if I were
to pack up and go to some place where the climate is
warmer?"

"Good heavens!" responded the doctor. "Isn't that just
what I've been trying to prevent?"

YES, AND BOTH ENDS MEAT

"— and some day the worm will turn."
"But what's its idea in turning? It's the same on both
sides, isn't it?"

Customer: "I say, waiter, when am I likely to get
that half-duck I ordered twenty minutes ago?"

Waiter: "When someone orders the other half, sir. We
can't go out shootin' half ducks!"

If you can kill two birds with one stone perhaps the
rifle team can solve the above problem with one quarter
of a shot.

It was at the scene of an automobile accident: An elderly
lady in one of the first cars to be stopped by the
debris of the smash-up, leaned from her car as a very
much battered man, with a hastily arranged bandage
around his ankle, hobbled by.

"Oh my," she said, "did you hurt your ankle?"

"Naw," replied the man, "I lost both eyes. This band-
age slipped down." D. S. D.

We Give Her Credit

"Is your daughter learning to play the piano by note?"
"I should say not; we always pay cash."

A Freshman asked during a conversation concerning
Monger, "Is he a ham actor?"

"Naw," responded a Soph, "you can cure ham."

HEY! HEY!

Si went to the circus one day
Resolved to get in without pay!
He crawled under the tent,
No one knew when he went,
For the elephants thought he was hay.

HAVE PATIENCE

Editor: "This cartoon isn't shaded enough."
Cartoonist: "Maybe not; but wait'll you see the joke
that goes with it."

And if the punk electricians are to be rewarded, then
why not the punk fire protectors or the fire propagators (as
it was last week.) Perhaps some architect will offer his
services to design a suitable trophy for over-careful fire
propagators.

NO GOOD

"Hey, Sambo, dat bank what you tole me to put my
money in las' week is in a bad way."
"How come, Rastus. Dat's de bestes' bank on de South
Side."

"Mebbe so, but dey jest sent me back one ob my checks
marked 'No Funds.'"
The most pitiful case we ever heard of was the guy who
always had to keep his hat on when he washed his face
so that he'd know where to step.

"What, Rome built at night? Impossible."

"Nppe, 'At's the truth."

"How come?"

"Well, it wasn't built in a day."

And with all this junk off our mind we put our column
to bed for the week. If you don't like it, then read the
editorial, that is worth reading.

THE BONGINEER.

REVIEWS

THE ROEBLINGS

By Hamilton Schuyler

Toward the middle of the nine-
teenth century America had started
to create its own civilization. The new
nation's resource needed the minds
and hands of European craftsmen to
build up its great cities and indus-
tries.

Thousands of these men came
to America. There were butchers,
bakers, and candle stick makers.
Their reasons for coming were varied,
as from escaping uncomfortable
matrimonial ties to that common
back yard variety of adventure—
"seeking one's fortune in the wide
world."

Technicians and engineers came
mainly from Germany and England.
One of these, John A. Roebling, on
whose diploma the ink of the Royal
Polytechnique of Berlin was scarcely
dried, sailed for America as the head
of small group of home townsmen.
They were on the way to settle a
colony in Pennsylvania, and it proved
to be a profitable deal for its leader.

How this young civil engineer
worked his way into bridge construc-
tion in his chosen state and founded
an industry on the side which grew
with each bridge he built, is the story
told in "The Roebblings" by Hamilton
Schuyler.

Becomes Bridge Authority

He was the original manufacture:
of wire rope in America. It found a
market in tow lines, trolley railroads,
and the suspension type bridge which
he so masterfully advocated. His
efforts caused this type to be used in
every instance where geographical
conditions warranted, until finally he
became the recognized authority and
leading designer of the suspension
bridge in America.

The manufacturing enterprise al-
luded to above evolved into more than
a mere factory. It became the sphere
of influence for a family which today
claims an important place in the
commerce of our country.

From John A. Roebling to the pre-
sent living Roebblings their work has
been on bridge construction, princi-
pally of the suspension type.

Built Brooklyn Bridge

The great Brooklyn Bridge was de-
signed by John A. Roebling and con-
structed by his son, Washington A.
Roebling. In its day, it was the
"eighth wonder of the world," due,
perhaps, to the fact that the sky-
scraper, Zeppelin, and ocean liners
had not yet made their appearance in
the American drama.

The latest example, the George
Washington over the Hudson River
just above New York, makes the
Brooklyn look like a highway viaduct
by comparison. We Americans have
grown so immune to such sensations
that when it was opened last fall,
newspapers thought it worthy of only
a few pictures in the photo-section
and a three hundred word
story on page eight. It is a safe bet
for anyone that none except the most
alert boys in dear old Armour properly
appreciate what an immensity it is.

Steel Cables Used

Its total length is very close to one
mile. Four great 61 strand cables,
outside diameter of 36 inches, stretch-
ing the full length of the span com-
prise steel threads upon which the
structure is hung.

The cables were made at the Roeb-
bling plant and much of the design
was created by their engineers.

This book has several excellent
angles which will appeal to Mr. A.
Armourite. Primarily, it is a study
of problems allied to engineering. If
A is a psychoanalyst, he might en-
joy a close scrutiny of the type of
men who put America on the map,
industrially speaking. Mr. Schuyler
has been charitable in his apologies
for the big-heartedness and the "hu-
maneness" of the family. To me they
appeared to be largely people to whom
the principles of "business first" and
"business is business" were important
in their minds. The only apology
needed is that that is strictly neces-
sary and valuable to the successful.

TRUSS CLUB HOLDS DANCE

On Saturday evening, Feb. 13,
1932, the Truss Club held a Lincoln's
Birthday dance in the organization's
rooms at 3423 S. Michigan Avenue.
The dance was well attended by both
the active and alumni members.
Among the faculty members present
were: Professor and Mrs. Heald, Pro-

ANTI-KNOCK FUELS SUBJECT OF TALK AT JOINT MEETING

Mr. Dedo of the Ethyl Gasoline
Corporation was the speaker at a
joint meeting of the A. S. M. E. and
A. I. Ch. E. held last Friday at 10:30
in the Assembly Hall. His topic,
"Anti-Knock Fuel Development for
High Compression Engines," dealt
with the effects that different chem-
ical compounds have upon the anti-
knock value of different grades of
fuels. He summed up the ideas in
the development of this fluid for high
compression engines. An experi-
menter in the field of gasoline en-
gines found that a knock was de-
veloped in an engine when a certain
compression ratio was reached. In
order to prevent this knock he tried
the addition of numerous chemical
compounds to prevent this detrimen-
tal effect on the cylinders and dis-
covered that many substances would
prevent this action with different
degrees of success. After many
years of research work, it was found
that tetra-ethyl lead was the most
efficient in preventing this knocking
effect.

Demonstrates Engine

On the stage of the assembly hall
Mr. Dedo had a one cylinder gaso-
line engine which he operated with
ordinary gasoline and with gasoline
to which had been added a pro-
portion of ethyl fluid. By means of
an ingenious device, the knocking
action was shown by small electric
lights on an instrument board. In
addition to this indication the effects
were quite audible.

After this he added a small
amount of ethyl fluid to the ordi-
nary fuel and the trouble vanished
promptly. He then exposed the car-
buretor to the vapors of this fluid
(ethyl) and the engine ran quite
smoothly.

Slides Show Efficiency

Next he showed, through the me-
dium of slides, how the efficiency of
the gasoline engine was affected by
the addition of anti-knock fuel. By
means of these graphs it was demon-
strated that the saving in gasoline
consumption was quite worthwhile
in the long run.

Mr. Dedo used many slides to ex-
plain that increasing the compression
ratio, that is the ratio of the volume
of vapor in the cylinder on the down-
stroke to that on the upper end of
the upstroke, increased the effi-
ciency tremendously at ordinary
speeds. The ratio which is predom-
inantly used in automobiles manu-
factured today is about five to one,
but by increasing this ratio to seven
to one an increase in horsepower of
over one hundred per cent was made
possible.

ARX NEWS

"A Commemorative Plaza" is a
problem the Juniors are "cracking
their skulls" over. It is considered
as the most difficult one they encoun-
tered this year. From 8:30 in the
morning to 10 o'clock in the evening
the boys may be found working delib-
erately, with perspiration in order
to get the problem out in due time.
Even the "Crit," Professor Mc-
Caughy is down there "sherretting"
with the boys.

Careful collaboration is now being
sought among the seniors for the
Cycle. They are now seriously en-
gaged in teams to achieve uniformity
of character for their modeling de-
signs which is to represent depart-
ment headings in the Cycle.

"Believe it or not" but Howard
Tonsager and Lindblad are working
in conjunction as one team.

Our social aspirant, Monsieur C.
Zukowski, or "Zuk," has started an-
other turmoil with his new ? It's un-
der his chin with yellow, black, and
white colors. Watch him, he may
use that color combination on his
next esquisse-esquisse.

essor and Mrs. Grafton, and Profes-
sor and Mrs. Vagtborg. Music was
furnished by Johnny Reich and his
Fraternity Club Orchestra whose well
balanced syncopation pleased the
crowd greatly. Punch and wafers
were served between dances, and
joviality reigned supreme till the
close at 12:45.

New Books

James T. Adams
The Adams Family

Winston Churchill
A Roving Commission

Guy De Pourtales
Franz Liszt

Alfred Krupp
Krupp, A Great Business Man

W. T. Hutchinson
Cyrus Hall McCormick

Hamilton Schuyler
"The Roebblings"

*(Reviewed in this issue)

FIRE PROTECTS CONTINUE THEIR ASSAULT ON LAB

Once again the fire protects have
crowded their natural enemies, the
chemikers, out of the picture by pro-
ducing another bit of work which
will remain in the eyes of the stu-
dents for many weeks to come. Two
weeks ago they attempted the de-
struction of the Industrial Labora-
tory, and last week they picked upon
wood as an object of attack. Why
anybody would attempt to destroy
the poor, defenseless wood is beyond
the writer.

The dark men in this plot were
William Smethells and Jack Pech-
man, junior fire protectors. Their
plans were laid very carefully and
they knew their objective, but one
almost insignificant fact was over-
looked. Wood was to be heated in
an iron retort so as to be changed
to crisp charcoal with the evolution
of its life's blood, figuratively
speaking.

Charcoal Blazes

The details of their deed are too
horrible to mention, but the wood
was repaid for all its discomforts by
causing consternation to both op-
erators. It wreaked vengeance upon
their souls. After the retort was
opened they attempted to place the
hot charcoal in a pail but it thought
otherwise. It burst into flame with
a crackling roar and showered them
with glowing embers.

At last their studies in fire non-
protection engineering could receive
a practical application, and William
rose to the occasion. But, alas,
alack, he didn't pick the right ex-
tinguisher for the particular case.
He chose the non-stoppable type, the
effluent of which messes up every-
thing it strikes.

The fire was stopped readily but
the white foamy mixture continued
to pour from the nozzle. Not wish-
ing to empty the entire contents of
the extinguisher in the Metallurgical
Laboratory—he knew he'd have to
clean it up—he quickly ran out the
exit and began to spray the frothy,
white liquid over the surroundings.

After his playful antics were finished
he viewed his work. The stairs and
ground below him, and a coal car
to the right, were covered with a
nice white substance, which from
the distance, appeared to be snow.
His work would put Tom Sawyer and
his white-washing episode to shame.

His pattern was artistic. One
rapid glance at it made the observer
burst out into tears of laughter at
the sloppy work produced by the
latest applicant for the schmier che-
miker trophy.

It seems quite probable that in the
future Harold Bannasch and William
Smethells will get together and form
a revolutionary painting concern.
Harold will paint ceilings modern-
istically in black, while William will
get in on the floor work with re-
actions in white.

Scarab Exhibition

The Travelling Exhibition of Scar-
ab, the Architectural Honorary Frater-
nity, has made its temporary stay
at the Architectural Department of
Armour at the Art Institute. It is
one of the largest exhibitions in the
Department and only the best draw-
ings are displayed.

The judgement for the drawings
was held during the National Con-
vention at Cincinnati last November.
Its yearly rounds of the exhibition
are from Washington, D. C. to Cali-
fornia and from Minnesota to Ala-
bama.

Some of the sketches made by
the students are for sale.